



The Blurb



*Newsletter of The Phil-Mont Mobile Radio Club
66 Years of Public Service, 1949 to 2015*

Volume 67 Number 7

www.phil-mont.org

July 2016

***There are no meetings in July and August
But don't worry, the Blurb never sleeps!***

Best wishes for a speedy recovery to Jack, WA3BXH who had a nasty encounter with a swimming pool (The pool won)



Happy Birthday USA!
Home of the Free because of the Brave



Pottstown Hams Bill W3FRB, Sal NC3U, Greg WA3GM and Jim K3CHJ Stopped by our site



Ralph, Steve & Sal enjoy the fine weather

More Field Day pics inside courtesy of WA3GM and WA3QED

The second part of Bob Thomas' article on capacitors see page 5

2016 Scholarship Winners and New Member Application see page 5

<i>The Blurb</i> is published monthly by and for the members of The PHIL-MONT MOBILE RADIO CLUB, Inc., whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs. Requests should be sent to the Editor: Rick DeVirgiliis ND3B@ARRL.net Subscriptions are available to non-members for \$12, addressed to the Treasurer. Labels and mailing: KB3IV Submissions deadline: All copy must be in the hands of the Editor by the 20th of the previous month.		Directors: N3QV(17) W3RM(17) K3HWG(17) WA3KIO(16) KB2ERL(16) ND3B(16) W3STW(A)	Contact Phil-Mont: P.O. Box 404 Warminster, PA 18974 http://www.phil-mont.org Website: Eric N3QV & Andrew KC2PMW For club information: Contact any club officer, or the repeaters listed below. Address or club directory changes and articles for the membership e-mail list should be sent to: KB3IV
		Sunday Morning Net Schedules • 2 Meter/ 70cm Net..... at 0930L on W3QV repeater • 10-on-10 Net at 1000L 28.393 MHz USB (±QRM) • 75 meter Net at 1020L 3.993 MHz LSB • ARES at 2100L on the W3QV repeater	
Committees Blurb folding: KB3IV & N3GLU Directory: KB3IV Field Day: KC2PMW Fusion Coord: NC3U	Internet: N3QV & KC2PMW Membership: K3HWG Net Control: KB3IV	Program: W3AOK Publicity: W3RM Refreshments: W3AOK Repeater: W3AOK	Scholarship: W3RM Sunshine: N3GLU VE Program: NS3K Welcome: N3UBY Youth: KC2PMW

All visitors are welcome!

The club meets at 7:00 PM on the *second* non-holiday Wednesday each month except July and August at Giant Supermarket, 315 York Rd, Willow Grove, PA
 Maps and directions are available at www.phil-mont.org.

License Examinations are held on the fourth **non-holiday Thursday** each month at

Community Ambulance Association, 1414 E. Butler Pike, Ambler PA 19002

Registration begins at 7:00 P.M. Applicants should contact Jim McCloskey NS3K at 215-275-2979 or jmccloskey@msn.com for the latest information.

Club Stations W3QV/R: The Jim Spencer Memorial Repeater System

Ridge & Port Royal Avenues, Philadelphia, PA **Trustee: W3RM**

147.03 MHz + PL 91.5 Hz 444.80 MHz + PL 186.2 Hz

Reach us on EchoLink through W3QV-R

W3AA Trustee: WU3I

W3EM: Field Day/special event station Trustee: N3QV

The Officers

President: WA3GM Greg Malone wa3gm@yahoo.com

Vice President: W3AOK Bill Popovic w3aok@verizon.net

Treas: KB3IV Ed Masarsky kb3iv@comcast.net

Secretary: WU3I Steve Hoch wu3i@arrl.net

The Prez Sez ...



Happy Summer Phil-Mont.

The Phil-Mont general meeting in June was most informative and again very well attended by members and visitors. I would like to thank Barry K3EUI one of our DEN Net Controls on Tuesday night for his excellent presentation on the Use of Soundcards. Great audience participation and just another very informative Phil-Mont evening.

Field Day was this past weekend and what a GREAT weekend it was. The weather was superb (unlike last year). I would like to thank everyone who came to help setup on Friday as well as everyone who came out to operate and assist with other duties on Saturday and Sunday. I will not name you all for fear of missing someone but you know who you are. You all made Phil-Mont proud.

As always our own Top Chef Steve WU3I kept the masses fed and happy. A special thank you again this year to our own "Bread Man" Jim KC3BRA for all the delicious Rolls, Breads and pastries that he provided as well as the Pizza and the delicious cookies provided by the Furlong family.

Thanks to Bobby KB2ERL our Field Day coordinator for a job well done. A special thank you to all our operators who did a great job even

though some of the bands were not very cooperative. The GOTA station was manned by Jim KC3BRA and others and what a great job they did up there. There was a whole lot of EVERYTHING going on at that station. Great Job.

Doug WA3DSP also had his Solar Power Wireless All Star Node on display and great job Doug.

One of our newest members Joe Sabach KC3HGJ prepared a great you-tube presentation after day one and what a great job, thanks Joe.

<https://www.youtube.com/watch?v=7w32OXrg3gY>

We had many visitors to include some boy scouts and our Atlantic Division Vice Director Bob Famiglio K3RF. Thanks Bob for taking the time out to see us at Phil-Mont.

Again thanks to everyone for a great fun filled and injury free weekend.

The following is a list of speakers for our meetings for the next few months:

July/August Summer Break

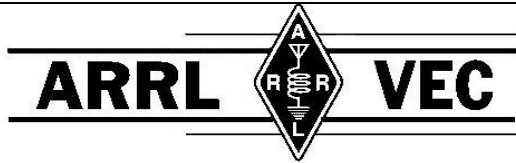
If anyone has any suggestions for a speaker or would like to speak at one of our meetings please let any of the club officers or board members know. Your input is vital and we welcome all suggestions.

Don't forget to sign up for the Phil-Mont Yahoo Group. We currently have 40+ members. This is a good way to share ideas amongst the membership. Sal NC3U is the moderator the group. For more info and to join the group contact Sal.

Everybody have a great and safe summer and we will see you in September.

See you all at the next meeting.

73, Greg WA3GM



***Thursday evening session is on
the 28th this month.***

As always, many thanks to our VE team!

***Phil-Mont Birthdays
& Tidbytes***

JULY BIRTHDAYS

02 Ted Katz - N3OWM

Alice Popovic (XYL W3AOK)

03 Nicole Bohlander (XYL WA3KLR)

10 Natalie Gordon - WB3KOH

16 Michael Davis - KB1JEY

17 Paul Lafollette - AB3SV

23 Art Weiner - WX3PHI

25 Jinny Haring - W3IIN

26 Mai-Lin (XYL N3BKR)

29 Jim Larkin - KA2FFP

31 Steve Hoch - WU3I

From the Secretary

Board minutes 6/1/2016

June 1 2016 WA3GM called the meeting to order at 7:15

The following were in attendance:

KB3IV

W3STW

K3HWG

As there was not a quorum the following were discussion items only:

Field day

Treasurers' report was discussed and approved by those present

WA3ERQ was accepted by those present

Joe Sabich (no call yet) was accepted by those present

Meeting adjourned 8:45

General Meeting minutes 6/8/2016

WA3GM opened the meeting at 7:15 PM

KB2ERL spoke on Field Day. Still need a 10 M and 40M band captain. Contact Bob KB2ERL. If you want to eat please register with WU3I via email at wu3i@arrl.net.

WU3I spoke on the upcoming MS150 in September. Please contact AB2LF at cookykay@aol.com to volunteer.

Barry K3EUI gave a program on Sound Card Oscilloscopes.

MEMBERSHIP STATS
At press time P.M.R.C. has:
111 FULL PAID MEMBERS
11 FAMILY MEMBERS
2 YOUTH MEMBERS
1 HONORARY MEMBER

Stephen Hoch WU3I

THE X AND Y OF CAPACITORS

Safe power line bypassing

Bob Thomas, W3NE

continued from last month

A Murata .0047 μ F 250 VAC ceramic disc capacitor for bypassing across the line or from line-to-ground (Class X/Y) is representative of a typical safety capacitor. It is listed on page 1095 of the current Mouser catalog as Part No. 81-DE2E3KY472MB2BM1F and priced at only 20¢ each, or half of that in lots of 10. That's impressive, considering the sophisticated technology behind the small package! There are hundreds of other safety-rated capacitors available through the Mouser catalog and the others listed above. Strangely, safety-rated capacitors rarely appear on eBay, which is just as well considering the murky sources of components offered there and the reliance we place on them in critical applications.

In addition to mundane line bypassing issues, the rise in use of switching-mode power supplies (SMPS) with capacitive coupling to the power line has introduced new concerns about the integrity of capacitors. In many cases, if an input coupling capacitor of a SMPS fails, the output circuit might become directly connected to the power line with possibly fatal consequences. Modern output-to-line coupling capacitors are also candidates for safety caps. Although neither of those applications have much effect on amateur radio construction, hams should be aware of safety requirements if they service that kind of equipment. When replacement of coupling capacitors is necessary, the new ones should have the same safety rating as the originals. Receiver antenna coupling capacitors, if used, should also comply with safety specifications.

In contrast to transmitters, some equipment in the shack – switching power supplies and video monitors, for instance – can cause line interference by generating high level periodic spikes, low frequency disturbances, and other trash on the power line. Filters to suppress that sort of interference often incorporate safety-rated bypass capacitors in rather high values. Small ceramic capacitors are ineffective in that situation, which requires high capacity tubular

caps with a dielectric of paper, polyester, or metalized polyester. The later often have “self-healing” properties. If a high voltage transient causes a short circuit between two layers of the metalized dielectric, an insulating compound is built up between layers around the location of the breakdown, enabling the capacitor to continue functioning. Again, if repairs on line-connected equipment are made by a ham, extreme care should be taken to ensure replacement capacitors not only are of the same value as original, but with the proper safety rating when applicable.

Hopefully, this article will alert everyone involved with radio equipment that new circumstances have increased the need to be mindful of safety capabilities of components that are connected directly to the power line. It's not “the old days” anymore!

Reference ¹: <http://www.eet-china.com/ARTICLES/2001AUG/PDF/>

We provided two scholarships to young radio amateurs this year and the winners are...

2016 PMRC Scholarship winners

Caitlin Brady W3CJB
Plymouth Meeting, Pa.
Senior, Drexel University

Bernard Socha KB3YWW
Mountain Top, Pa.
Senior, Wilkes University

The following radio amateur has applied for PMRC membership

George Gianios WB3DZZ
Warrington, Pa
General Class



*The fine points of satellites
W / KC3BRA et al*



*ARRL Atlantic Div. Vice Director
Bob Famiglio at the 75 meter tent*



Jack K3CHR



*N3SHM, Susan,
KB3DID, K3ZMJ*



KB3SJS & KB3SJT



Geoorge Baker Able



KC3CEW & "The Chef"



W3JLS & K3RON



Hey Ralfy, what's holding it up?



Ooh, clever!



Steve, Greg & Ralfy brainstorming



Never fear, the Dachsund's here!



AOK utilizing that crank up tower



"Old Faithful"

I just have to relate a good customer service experience: I called Champion about a problem with my generator and not only did the guy suggest some possible fixes, but stayed on the phone while I tried them. Finally I ran out of tools and he said he's sending a free carburetor just in case I need it. Wow!

July at Phil-Mont

3 Sun K3XS
 4 Mon Independence Day
 10 Sun K3EUI
 17 Sun KB3IV
 24 Sun KB3SJS
 27 Wed Korean War ends, 1953
 28 Thur VE session
 31 Sun N3QV

***Don't forget the ARES net on Sunday nights and
 the Digital net on Tuesday nights.***

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First Class Mail**For Sale**

***1/8" (290#) & 3/16" (380#) Dark Olive Drab
 Braided Cord · 100% Polyester/Dacron Knit
 Braided. Nice stuff! Tough and long lasting · UV
 Resistant and Low Stretch Proudly Made in the
 U.S.A.! Contact Steve WU3I at wu3i@arrl.net or
 215-605-6074***

For Sale - Comet CHV-5X HF limited space
 Antenna.

Covers 40-6 meters. Original price \$319.

Only a few months old and works fine. Sale price
 \$200

Contact George, WB3DZZ - ggianios@verizon.net
 (Posted by WA3DSP Doug Crompton)

The Phil-Mont Mobile Radio Club, Inc
 1700 Street Rd. Apt. H3, Warrington PA, 18976

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